

Patent Abstracts of Japan

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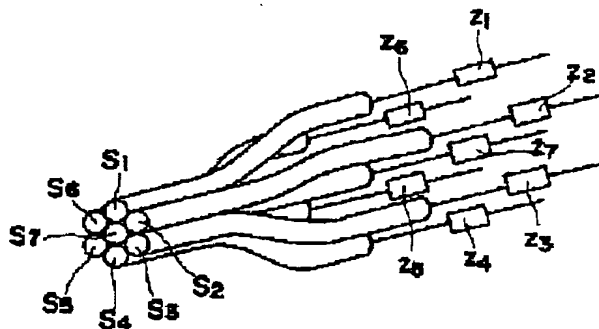
APPLICATION DATE : 09-03-92
APPLICATION NUMBER : 04085056

APPLICANT : CENTRAL RES INST OF ELECTRIC
POWER IND;

INVENTOR : TSUKAMOTO OSAMI;

INT.CL : H01B 12/08 H01F 5/08

TITLE : SUPERCONDUCTIVE STRANDED
WIRE, SUPERCONDUCTIVE CABLE,
AND POWER MACHINERY WINDING
USING THEM



ABSTRACT : PURPOSE: To equalize the critical current flowing through respective strands of a superconductive stranded wire or a superconductive cable or each subcable so as to enhance the critical current.

CONSTITUTION: Impedances Z_1 to Z_7 as current controlling means are added to respective strands S_1 to S_7 of a superconductive stranded wire S or a superconducting cable or each subcable, or twisting of respective strands or subcables are locally widened so as to enlarge distances between them resulting in the reduction in mutual inductances between respective strands or subcables, in order to equalize the current flowing in respective strands S_1 to S_7 or subcables so as to eliminate degradation. Further, these superconductive stranded wires or superconductive cables are used for windings in power machinery, for example a coil in a transformer.

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